

COMPOSITE FRICTION DISC WITH STRUCTURAL CORE AND
REFURBISHABLE LINING ELEMENTS

ABSTRACT OF THE DISCLOSURE

5 A friction disc assembly having an annular structural core (40) and
at least one friction lining disc (30). The annular structural core (40) is
made from a strength-optimized carbon-carbon composite and the friction
lining discs (30) from a friction-optimized carbon-carbon composite. Each
friction lining disc (30) is provided with a mounting surface (31) and a
wear surface (32). The structural core (40) includes at least one
mounting surface (41). The mounting surfaces (31,41) may include
10 corresponding sinusoidally-shaped wave patterns for increasing the
surface area of a contact zone between the friction lining discs (30) and a
reusable structural core (40).

104090" B69E/360